SEQUENCE LISTING

Timans, Jacqueline C. <120> Nucleic acids encoding mammalian interleukin-1zeta, related reagents and methods <130> DX0904K <140> US 09/398,412 <141> 1999-09-17 <150> US 60/100948 <151> 1998-09-18 <160> <170> PatentIn version 3.1 <210> <211> 1225 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (491)..(1144) <223> <400> 1 cggtttgttt tctttagaga ttttacagtg ttgqttataa ttgtgcactt aatctttatt 60 ttccttatac agtagtcccc ccgatcaact qqqqqcatqt tccatacccc tqqtqqattc 120 ctgaaactgc cagttagtac caaaccctat atagattgtg ttttttcctg tacgcaggcc 180 gacacacagg aaatcataag tcaggagggc cactgccacg caggaaagac ccatctgaac tgctgcaaaa gctccgtgtc gatttattgc ttccacaaat agtgccgata tgcaccaggc 300 actgttgtaa aactgaaaat atgttttggg atgtgcccag tctacctagc tccttcaagt 360 aaaggatcct gagaactgaa ggcaaacaga gctccaggag tccaagacag agccacacac cacgaggatc ctggcccagg tcttggactt ccattcccat ttctgttgag taataaactc 480 aacgttgaaa atg tcc ttt gtg ggg gag aac tca gga gtg aaa atg ggc 529 Met Ser Phe Val Gly Glu Asn Ser Gly Val Lys Met Gly 1 tot gag gac tgg gaa aaa gat gaa coo cag tgc tgc tta gaa gac cog 577 Ser Glu Asp Trp Glu Lys Asp Glu Pro Gln Cys Cys Leu Glu Asp Pro 15 get gga age eec etg gaa eea gge eea age ete eec ace atg aat ttt 625 Ala Gly Ser Pro Leu Glu Pro Gly Pro Ser Leu Pro Thr Met Asn Phe . 30 35 40 gtt cac aca agt cga aag gtg aag agc tta aac ccg aag aaa ttc agc 673 Val His Thr Ser Arg Lys Val Lys Ser Leu Asn Pro Lys Lys Phe Ser

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ctc Leu 110	ctg Leu	Gly 999	gtc Val	tct Ser	aaa Lys 115	ggg	gag Glu	ttt Phe	tgt Cys	ctc Leu 120	tac Tyr	tgt Cys	gac Asp	aag Lys	gat Asp 125	865
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													atc Ile 155			961
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													ttt Phe			1105
		aaa Lys											tagg	jaaac	etg	1154 [°]
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Pro Leu Glu Pro Gly Pro Ser Leu Pro Thr Met Asn Phe Val His Thr 35 40 45

Ser Arg Lys Val Lys Ser Leu Asn Pro Lys Lys Phe Ser Ile His Asp 50 55 60

Gln Asp His Lys Val Leu Val Leu Asp Ser Gly Asn Leu Ile Ala Val 65 70 75 80

Pro Asp Lys Asn Tyr Ile Arg Pro Glu Ile Phe Phe Ala Leu Ala Ser 85 90 95

Ser Leu Ser Ser Ala Ser Ala Glu Lys Gly Ser Leu Ile Leu Leu Gly
100 105 110

Val Ser Lys Gly Glu Phe Cys Leu Tyr Cys Asp Lys Asp Lys Gly Gln
115 120 125

Ser His Pro Ser Leu Gln Leu Lys Lys Glu Lys Leu Met Lys Leu Ala 130 135 140

Ala Gln Lys Glu Ser Ala Arg Arg Pro Phe Ile Phe Tyr Arg Ala Gln 145 150 155 160

Val Gly Ser Arg Asn Met Leu Glu Ser Ala Ala His Pro Gly Trp Phe 165 170 175

Ile Cys Thr Ser Cys Asn Cys Asn Glu Pro Val Gly Val Thr Asp Lys
180 185 190

Phe Glu Asn Arg Lys His Ile Glu Phe Ser Phe Gln Pro Val Cys Lys 195 200 205

Ala Glu Met Ser Pro Ser Glu Val Ser Asp 210 215

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Pro Leu Glu Pro Gly Pro Ser Leu Pro Ala Met Asn Phe Val His Thr 35 40 45

Ser Pro Lys Val Lys Asn Leu Asn Pro Lys Lys Phe Ser Ile His Asp 50 60

Gln Asp His Lys Val Leu Val Leu Asp Ser Gly Asn Leu Ile Ala Val 65 70 75 80

Pro Asp Lys Asn Tyr Ile Arg Pro Glu Ile Phe Phe Ala Leu Ala Ser 85 90 95

Ser Leu Ser Ser Ala Ser Ala Glu Lys Gly Ser Pro Ile Leu Leu Gly
100 105 110

Val Ser Lys Gly Glu Phe Cys Leu Tyr Cys Asp Lys Asp Lys Gly Gln 115 120 125

Ser His Pro Ser Leu Gln Leu Lys Lys Glu Lys Leu Met Lys Leu Ala 130 135 140

Ala Gln Lys Glu Ser Ala Arg Arg Pro Phe Ile Phe Tyr Arg Ala Gln 145 150 155 160

Val Gly Ser Trp Asn Met Leu Glu Ser Ala Ala His Pro Gly Trp Phe 165 170 175

Ile Cys Thr Ser Cys Asn Cys Asn Glu Pro Val Gly Val Thr Asp Lys
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Phe Glu Asn Arg Lys His Ile Glu Phe Ser Phe Gln Pro Val Cys Lys 195 200 205

Ala Glu Met Ser Pro Ser Glu Val Ser Asp 210 215

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Ile Ile Lys Tyr Glu Phe Ile Leu Asn Asp Ala Leu Asn Gln Ser Ile 20 25 30

Ile Arg Ala Asn Asp Gln Tyr Leu Thr Ala Ala Ala Leu His Asn Leu 35 40 45

Asp Glu Ala Val Lys Phe Asp Met Gly Ala Tyr Lys Ser Ser Lys Asp 50 55 60

Asp Ala Lys Ile Thr Val Ile Leu Arg Ile Ser Lys Thr Gln Leu Tyr 65 70 75 80

Val Thr Ala Gln Asp Glu Asp Gln Pro Val Leu Leu Lys Glu Met Pro 85 90 95

Glu Ile Pro Lys Thr Ile Thr Gly Ser Glu Thr Asn Leu Leu Phe Phe 100 105 110

Trp Glu Thr His Gly Thr Lys Asn Tyr Phe Thr Ser Val Ala His Pro 115 120 125

Asn Leu Phe Ile Ala Thr Lys Gln Asp Tyr Trp Val Cys Leu Ala Gly 130 135 140

Gly Pro Pro Ser Ile Thr Asp Phe Gln Ile Leu Glu Asn Gln Ala 145 150 155

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<212> PRT

<213> Mus musculus

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Ser Ala Pro Tyr Thr Tyr Gln Ser Asp Leu Arg Tyr Lys Leu Met Lys 1 5 10 15

Leu Val Arg Gln Lys Phe Val Met Asn Asp Ser Leu Asn Gln Thr Ile 20 25 30

Tyr Gln Asp Val Asp Lys His Tyr Leu Ser Thr Thr Trp Leu Asn Asp

35

45

Leu Gln Gln Glu Val Lys Phe Asp Met Tyr Ala Tyr Ser Ser Gly Gly
50 55 60

Asp Asp Ser Lys Tyr Pro Val Thr Leu Lys Ile Ser Asp Ser Gln Leu 65 70 75 80

Phe Val Ser Ala Gln Gly Glu Asp Gln Pro Val Leu Leu Lys Glu Leu 85 90 95

Pro Glu Thr Pro Lys Leu Ile Thr Gly Ser Glu Thr Asp Leu Ile Phe 100 105 110

Phe Trp Lys Ser Ile Asn Ser Lys Asn Tyr Phe Thr Ser Ala Ala Tyr 115 120 125

Pro Glu Leu Phe Ile Ala Thr Lys Glu Gln Ser Arg Val His Leu Ala 130 135 140

Arg Gly Leu Pro Ser Met Thr Asp Phe Gln Ile Ser 145 150 155

<210> 7

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<212> PRT

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Asn Asp Gln Val Leu Phe Ile Asp Gln Gly Asn Arg Pro Leu Phe Glu 20 25 30

Asp Met Thr Asp Ser Asp Cys Arg Asp Asn Ala Pro Arg Thr Ile Phe 35 40 45

Ile Ile Ser Met Tyr Lys Asp Ser Gln Pro Arg Gly Met Ala Val Thr
50 55 60

Ile Ser Val Lys Cys Glu Lys Ile Ser Thr Leu Ser Cys Glu Asn Lys 65 70 75 80

Ile Ile Ser Phe Lys Glu Met Asn Pro Pro Asp Asn Ile Lys Asp Thr 85 90 95 Lys Ser Asp Ile Ile Phe Phe Gln Arg Ser Val Pro Gly His Asp Asn 100 105 110

Lys Met Gln Phe Glu Ser Ser Ser Tyr Glu Gly Tyr Phe Leu Ala Cys 115 120 125

Glu Lys Glu Arg Asp Leu Phe Lys Leu Ile Leu Lys Lys Glu Asp Glu 130 135 140

Leu Gly Asp Arg Ser Ile Met Phe Thr Val Gln Asn Glu Asp 145 150 155

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Asn Asp Gln Val Leu Phe Val Asp Lys Arg Gln Pro Val Phe Glu Asp 20 25 30

Met Thr Asp Ile Asp Gln Ser Ala Ser Glu Pro Gln Thr Arg Leu Ile 35 40 45

Ile Tyr Met Tyr Lys Asp Ser Glu Val Arg Gly Leu Ala Val Thr Leu 50 55 60

Ser Val Lys Asp Ser Lys Met Ser Thr Leu Ser Cys Lys Asn Lys Ile 65 70 75 80

Ile Ser Phe Glu Glu Met Asp Pro Pro Glu Asn Ile Asp Asp Ile Gln 85 90 95

Ser Asp Leu Ile Phe Phe Gln Lys Arg Val Pro Gly His Asn Lys Met 100 105 110

Glu Phe Glu Ser Ser Leu Tyr Glu Gly His Phe Leu Ala Cys Gln Lys 115 120 125

Glu Asp Asp Ala Phe Lys Leu Ile Leu Lys Lys Lys Asp Glu Asn Gly 130 135 140

Asp Lys Ser Val Met Phe Thr Leu Thr Asn Leu His Gln Ser

145 150 155

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<212> PRT

<213> Homo sapiens

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Asp Ala Pro Val Arg Ser Leu Asn Cys Thr Leu Arg Asp Ser Gln Gln 1 5 10 15

Lys Ser Leu Val Met Ser Gly Pro Tyr Glu Leu Lys Ala Leu His Leu 20 25 30

Gln Gly Gln Asp Met Glu Gln Gln Val Val Phe Ser Met Ser Phe Val
35 40 45

Gln Gly Glu Glu Ser Asn Asp Lys Ile Pro Val Ala Leu Gly Leu Lys 50 55 60

Glu Lys Asn Leu Tyr Leu Ser Cys Val Leu Lys Asp Asp Lys Pro Thr 65 70 75 80

Leu Gln Leu Glu Ser Val Asp Pro Lys Asn Tyr Pro Lys Lys Met 85 90 95

Glu Lys Arg Phe Val Phe Asn Lys Ile Glu Ile Asn Asn Lys Leu Glu 100 105 110

Phe Glu Ser Ala Gln Phe Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ala 115 120 125

Glu Asn Met Pro Val Phe Leu Gly Gly Thr Lys Gly Gly Gln Asp Ile 130 135 140

Thr Asp Phe Thr Met Gln Phe Val Ser Ser 145

<210> 10

<211> 153

<212> PRT

<213> Mus musculus

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Asp Val Pro Ile Arg Gln Leu His Tyr Arg Leu Arg Asp Glu Gln Gln 1 5 10 15

Lys Ser Leu Val Leu Ser Asp Pro Tyr Glu Leu Lys Ala Leu His Leu 20 25 30

Asn Gly Gln Asn Ile Asn Gln Gln Val Ile Phe Ser Met Ser Phe Val 35 40 45

Gln Gly Glu Pro Ser Asn Asp Lys Ile Pro Val Ala Leu Gly Leu Lys
50 60

Gly Lys Asn Leu Tyr Leu Ser Cys Val Met Lys Asp Gly Thr Pro Thr 65 70 75 80

Leu Gln Leu Glu Ser Val Asp Pro Lys Gln Tyr Pro Lys Lys Met
85 90 95

Glu Lys Arg Phe Val Phe Asn Lys Ile Glu Val Lys Ser Lys Val Glu
100 105 110

Phe Glu Ser Ala Glu Phe Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ala 115 120 125

Glu His Lys Pro Val Phe Leu Gly Asn Asn Ser Gly Gln Asp Ile Ile 130 135 140

Asp Phe Thr Met Glu Ser Val Ser Ser 145

<210> 11

<211> 153

<212> PRT

<213> Homo sapiens

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Cys Arg Pro Ser Gly Arg Lys Ser Ser Lys Met Gln Ala Phe Arg Ile
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Trp Asp Val Asn Gln Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val 20 25 30

Ala Gly Tyr Leu Gln Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp 35 40 45

Val Val Pro Ile Glu Pro His Ala Leu Phe Leu Gly Ile His Gly Gly

Lys Leu Cys Leu Ser Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln 65 70 75 80

Leu Glu Ala Val Asn Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp 85 90 95

Lys Arg Phe Ala Phe Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe
100 105 110

Glu Ser Ala Ala Cys Pro Gly Trp Phe Leu Cys Thr Ala Met Glu Ala 115 120 125

Asp Gln Pro Val Ser Leu Thr Asn Met Pro Asp Glu Gly Val Met Val
130 140

Thr Lys Phe Tyr Phe Gln Glu Asp Glu 145 150

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<211> 153

<212> PRT

<213> Mus musculus

<400> 12

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Trp Asp Thr Asn Gln Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Ile 20 25 30

Ala Gly Tyr Leu Gln Gly Pro Asn Ile Lys Leu Glu Glu Lys Ile Asp 35 40 45

Met Val Pro Ile Asp Leu His Ser Val Phe Leu Gly Ile Lys Gly Tyr 50 60

Lys Leu Tyr Met Ser Cys Val Lys Ser Gly Asp Asp Ile Lys Leu Gln 65 70 75 80

Leu Glu Glu Val Asn Ile Thr Asp Leu Ser Lys Asn Lys Glu Glu Asp 85 90 95

Lys Arg Phe Thr Phe Ile Arg Ser Glu Lys Gly Pro Thr Thr Ser Phe 100 105 110

Glu Ser Ala Ala Cys Pro Gly Trp Phe Leu Cys Thr Thr Leu Glu Ala 115 120 125 Asp Arg Pro Val Ser Leu Thr Asn Thr Pro Glu Glu Pro Leu Ile Val

Thr Lys Phe Tyr Phe Gln Glu Asp Gln 145

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Leu Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu 20 25 30

His Ala Glu Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn 35 40 45

Arg Ala Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly 50 55 60

Gly Ser Gln Cys Leu Ser Cys Gly Thr Glu Lys Gly Pro Ile Leu Lys 65 70 75 80

Leu Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser 85 90 95

Lys Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe 100 105 110

Glu Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Ser Pro Glu Ala 115 120 125

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<210> 14

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Val Gln Asp Leu Ser Ser Arg Val Trp Ile Leu Gln Asn Asn Ile Leu 20 25 30

Thr Ala Val Pro Arg Lys Glu Gln Thr Val Pro Val Thr Ile Thr Leu 35 40 45

Leu Pro Cys Gln Tyr Leu Asp Thr Leu Glu Thr Asn Arg Gly Asp Pro 50 55 60

Thr Tyr Met Gly Val Gln Arg Pro Met Ser Cys Leu Phe Cys Thr Lys 65 70 75 80

Asp Gly Glu Gln Pro Val Leu Gln Leu Gly Glu Gly Asn Ile Met Glu 85 90 95

Met Tyr Asn Lys Lys Glu Pro Val Lys Ala Ser Leu Phe Tyr His Lys
100 105 110

Lys Ser Gly Thr Thr Ser Thr Phe Glu Ser Ala Ala Phe Pro Gly Trp
115 120 125

Phe Ile Ala Val Cys Ser Lys Gly Ser Cys Pro Leu Ile Leu Thr Gln
130 135 140

Glu Leu Gly Glu Ile Phe Ile Thr Asp Phe Glu Met Ile Val Val His 145 150 155 160

<210> 15

<211> 169

<212> PRT

<213> Homo sapiens

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Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly Arg Ala Val Tyr $1 5 10^{\circ}$ 15

Gln Ser Met Cys Lys Pro Ile Thr Gly Thr Ile Asn Asp Leu Asn Gln
20 25 30

Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser 35 40 45

Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro

50

Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln 65 70 75 80

Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr 85 90 95

Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu 100 105 110

Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser 115 120 125

Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys
130 135 140

Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly Lys Ser Tyr Asn 145 150 155 160

Thr Ala Phe Glu Leu Asn Ile Asn Asp 165